ZERO SHUTDOWN

AN INTELLIGENT SYSTEM WHICH DECIDES TO RUN BACKUP POWER BEFORE ANY ABNORMAL SHUTDOWN OF PRIMARY POWER
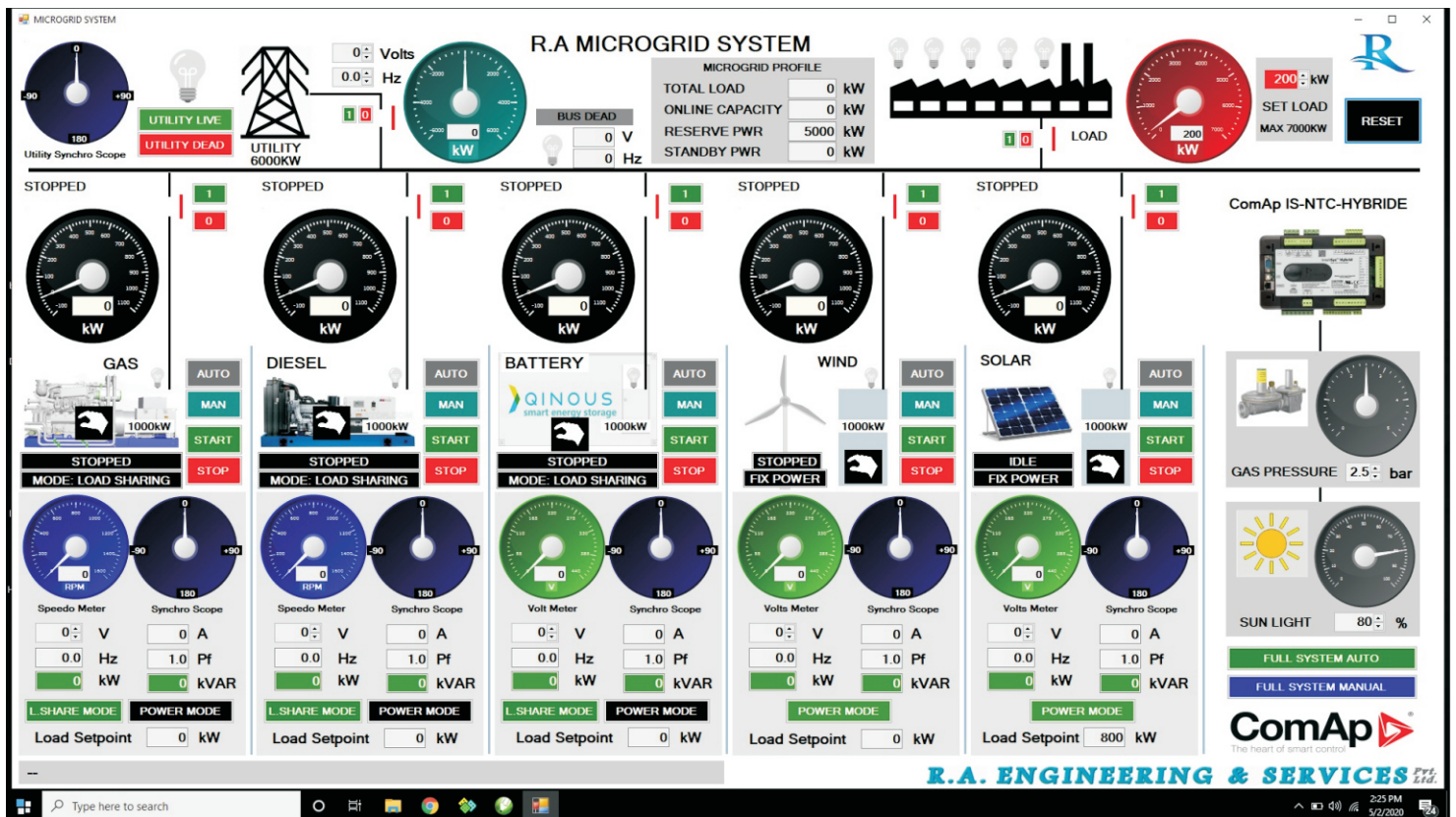
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MICROGRID SOFTWARE
THE HEART OF ZERO SHUTDOWN SYSTEM

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WHAT IS ZERO SHUTDOWN SYSTEM

Zero Shutdown System is an intelligent monitoring and control system , which keep the eyes on the primary source of power generation and if any limitation occurs then this system takes quick action and starts and syncronizes the secondary source of the power generation like Grid supply or DG sets. In case of drop in the gas supply pressure , instead of stopping the gas generators , this system limits the load on gas gensets so the power generation on gas remain online with limited capacity .

GAS PRESSURE SENSOR

GAS STREET
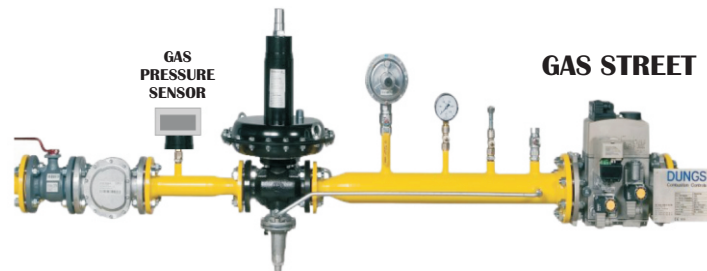
The heart of this system is InteliSysNTC Hybrid

► InteliSys^NTC Hybrid

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InteliSys^NTC Hybrid controller offers complex control of PV/Diesel hybrid applications (microgrids). It allows smooth integration of renewable energy to conventional power generation from reciprocating gen-sets while maintaining high reliability, safety and efficiency of the site.

Key Functions

♦Modbus RTU/TCP**interface to multiple PV inverters
♦Protection against gen-set underloading
♦Dynamic spinning reserve management for
♦maximized fuel savings
♦Support of up to 100% renewable energy penetration*

Key Features

Extensive flexibility due to built-in PLC
Interface with various site components (PV inverters,BMS, gen-set controllers,etc.)
Smooth integration of renewable energy source(s)with genset(s), energy storage systems and the grid
Direct PV output power control (analog/digital orModbus)
Continuous monitoring and control of all energy
sources (Actual power output from: PV, Genset, Battery and grid)
Statistics of generated energy and fuel consumption
Long lerm renewable energy penetration calculation
Inputs and outputs configurable for various customer needs
Interface to remote display units (InteliVision 8,InteliVision 5 RD, InteliVision 12Touch, InteliVision 18Touch)
USB 2.0 slave interface
Ethernet, Modbus and CAN communication
Pre mortem history (50 records)
Event-based history (up to 4000 records)
160 additional programmable protections

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ComAp Products Compliance with
IEEE and American Standard C37.2-1970.
(Protective Devices Classification)

Submitted By..
(R.A Engineering & Services Pvt. Ltd. Pakistan)

ComAp Products Certifications & Approval Standards ..

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www.raeng.com

Thanks for your time

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